

Patent Claims

1. A method for locating persons within a monitored area (building 1) in a mobile application, in which at least one transmitter (2) operating in the ultrawide band (UWB) spectrum, at least one transmit/receive device (transceiver 3) operating in the ultrawide band (UWB) spectrum, and a receiver (4) operating in the ultrawide band (UWB) spectrum are used, the transmitter (2) being arranged stationary in the monitored area during the operation, the transmit/receive device (3) being disposed on the person to be located and the receiver (4) being arranged on a monitoring processor (control center) located outside the monitored area and connected thereto.
2. A method according to claim 1, characterized in that the transmitter (2) and the transmit/receive device (transceiver 3) additionally operate based on the LORAN-C positioning system, with the position data determined by means of the LORAN-C system being combined determined using ultrawide band technology and corrected.
3. A method according to claim 1 or 2, characterized in that at least one other stationary transmitter (8) is provided in the monitored area.
4. A method according to claim 3, characterized in that the additional transmitter (2) is arranged outside the plane defined by the first stationary transmitter (2).
5. A method according to any one of the claims 1 to 4, characterized in that the monitored area is the inside of a building (1) and the stationary transmitter or transmitters (2, 8) is or are installed in prominent locations of the building (1) that are easily accessible.

6. An arrangement for locating persons within a monitored area in a mobile application, comprising at least one transmitter (2) operating in the ultrawide band (UWB) spectrum, at least one transmit/receive device (transceiver 3) operating in the ultrawide band (UWB) spectrum, and a receiver (4) operating in the ultrawide band (UWB) spectrum are used, the transmitter (2) being arranged stationary in the monitored area during the operation, the transmit/receive device (3) being disposed on the person to be located and the receiver (4) being arranged on a monitoring processor (control center) located outside the monitored area and connected thereto.
7. An arrangement according to claim 6, characterized in that the transmitter (2) and the transmit/receive device (transceiver 3) additionally operate based on the LORAN-C positioning system, with the position data determined by means of the LORAN-C system being combined determined using ultrawide band technology and corrected.
8. An arrangement according to claim 7, characterized in that at least one other stationary transmitter (8) is provided in the monitored area.
9. An arrangement according to claim 8, characterized in that the additional transmitter (2) is arranged outside the plane defined by the first stationary transmitter (2).
10. An arrangement according to any one of the claims 7 to 9, characterized in that the monitored area is the inside of a building (1) and the stationary transmitter or transmitters (2, 8) is or are installed in prominent locations of the building (1) that are easily accessible.